



CLEARING THE AIR

2019 APCD Workshop Series

Are you curious about the air you breathe, what's in it, and how it's protected?

Join us at our free monthly workshops and get an in-depth look at how we keep the air clean.

FEBRUARY 18	JULY 15
MARCH 18	AUGUST 19
APRIL 15	SEPTEMBER 16
MAY 20	OCTOBER 21
JUNE 17	NOVEMBER 18

6 p.m-7:30 p.m. | Louisville Free Public Library, 301 York St.

For more info, go to www.louisvilleky.gov/APCD
(502) 574-6000

CLEARING THE AIR

2019 APCD Workshop Series



The [APCD Workshop Series](#) seeks to:

- Increase the community's understanding of Louisville's air and of APCD's many functions
- **EMPOWER** citizens
- Provide a more informal forum for dialogue, Q&A and feedback
- Continue with community engagement efforts

CLEARING THE AIR

2019 APCD Workshop Series



Today's workshop seeks to:


1. Explain how Louisville Metro responds to emergencies involving the release or spill of hazardous materials.
2. Discuss how the public can report odors and how APCD (and others) respond to odor complaints.
3. Explore what steps the APCD—with help from the community and its peers—is taking to better respond to and address odor complaints in Louisville.

CLEARING THE AIR

2019 APCD Workshop Series



Remember...

- There are **NO** silly questions
- Public Participation = A yellow sun icon with a purple outline and the letters "PP" in the center.
- Interactive/informal workshop
 - Ask questions as they come to mind
 - Feedback? Email Clearingtheair@louisvilleky.gov



Odors and Emergency Response

Air Pollution Control District
07/15/2019



Emergency Response

Responding to Hazardous Materials and Incidents

- Emergency Management Agency
(a division of Louisville Metro
Emergency Services)
- Public Health & Wellness



DEPARTMENT OF
**PUBLIC HEALTH
AND WELLNESS**



Why would EMA be notified?

- If there is a possible Search and Rescue (SAR) operation
- If there is a **hazardous material release**
- If there is an incident with possible terrorism nexus





Why would EMA be notified?

- If there is significant impact to the community:
 - Major Road Closure
 - Major Interruption of Utilities
 - Impending Severe Weather Event
 - Water Rescue for boaters, jumpers, etc.
 - Significant Fire Issue i.e. multi alarm, **high particulates in smoke**, etc.



What would EMA do?

- Emergency Management is a resource agency.
- We are the Metro's connection to the State.
- We maintain relationships with response agencies, businesses and citizens.
- Our employees are qualified in multiple response disciplines.

Hazardous Materials Response Team

Responds to hazardous material releases or spills
(chemical, biological or radiation) - 24 hours, 7 days a week

Hazardous Materials Ordinance Chapter 95

Health Regulations & Nuisances Chapter 96



DEPARTMENT OF
**PUBLIC HEALTH
AND WELLNESS**

Division of Environmental Health and Emergency

Hazardous Materials Response Team

Responses are made at the request of...

Fire

Police

Metro Safe

CSR



Whenever public health and safety is threatened.

Hazardous Materials Response Team

Program staff are trained to perform many functions during an incident

- Assess health impact during hazardous
- Assist responding agencies to ensure safety
- Conduct air monitoring
- Advise on proper clean up
- Ensure the proper clean up



Hazardous Materials Response Team

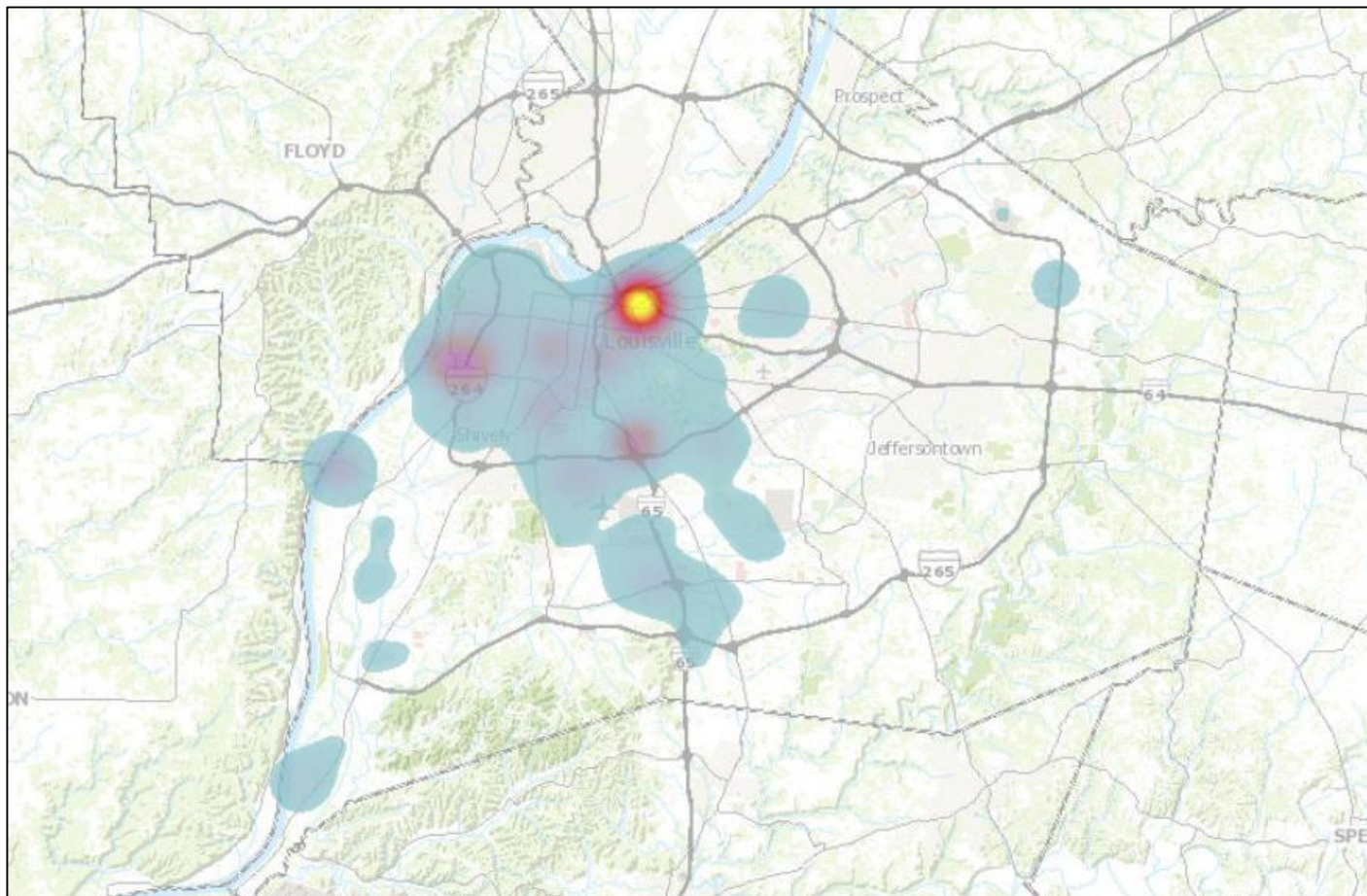
Staff respond to public complaints when NOT working a hazardous materials event.

- Improper disposal of hazardous waste
- Environmental crimes (illegal dumping on public lands and waterways)
- Indoor air quality (mold and other indoor contaminants)



Objectionable Odors

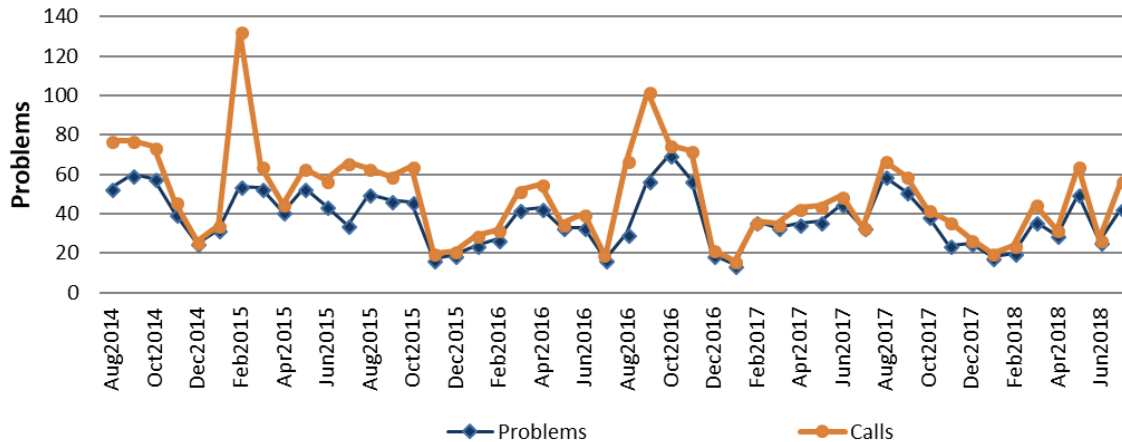
Odor Complaints in Louisville*



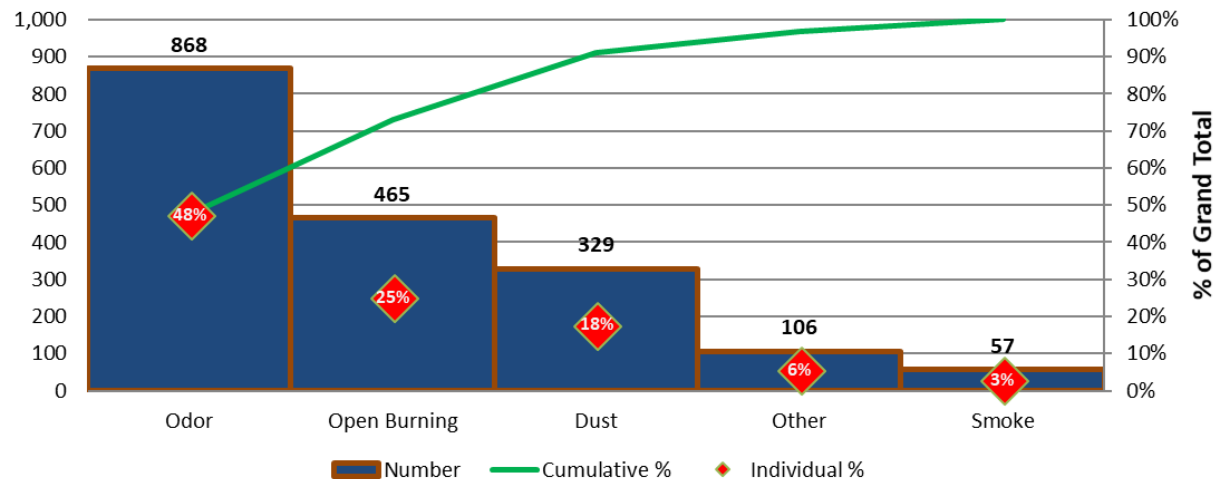
*Odor complaints heat map 2012 through 2018.

Complaints by the Numbers

Community Complaints Aug 2014 - July 2018



Aug 2014-July 2018 By Complaint Type



Sources of Objectionable Odors

Objectionable odors can come from **many** sources:

- **Animal operations:** Livestock hauling, food processing, tanning (leather)
- **Industry:** Landfills, chemical manufacturing operations, painting, commercial cooking, distilleries
- **Nature:** Compost, wet soil, forest fires, trees
- **Vehicles:** Diesel exhaust, garbage trucks, burning oil
- **Sewage:** Wastewater treatment plants, catch basins
- **Other:** Restaurants, spray paint, meth house, sewers

Control of Objectionable Odors

Regulation 1.13 *Control of Objectionable Odors in the Ambient Air*

No person shall emit or cause to be emitted into the ambient air any substance that creates an objectionable odor beyond the person's property line.

Control of Objectionable Odors

Regulation 1.13 Control of Objectionable Odors in the Ambient Air

An odor will be **deemed objectionable** when documented investigation by the District includes, as a minimum:

- Observations on the odor's nature, intensity, duration, and location, and
- Evidence that the odor causes injury, detriment, nuisance, or annoyance to persons or to the public

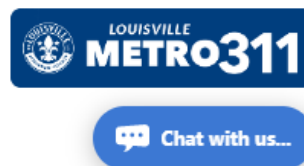
Reporting Objectionable Odors

Reporting Objectionable Odors

- Air Pollution Control District



- Metro311 (Online Portal or Mobile App)



- SmellMyCity (Mobile App)



- MSD



Reporting Odors Impacting Your Immediate Health or Safety

If an odor is affecting your immediate health and safety – such as burning your eyes or causing physical discomfort – immediately call

911

Reporting Objectionable Odors: APCD

■ APCD Office

- 701 W Ormsby Avenue, Suite 303
- Hours: 8 a.m. – 5 p.m., Monday – Friday
- Make complaint in person (walk-in)



■ Phone

- (502) 574-6000
- 24 hours a day, 7 days per week
- If outside of office hours, please leave a message




■ Electronically

- Email APCD at air@louisvilleky.gov



Metro311 Online Portal

Metro311 Request Portal

 Home

Log InSign Up

Improve your community. Report an issue and watch it get fixed.

Search...

Animal or Pest Issue Request

Building Permit Complaint

Business Concern

Drainage and Sewer

Environmental

Feedback

Garbage, Recycling, Yard Waste & Junk

Litter Complaint

Noise Concern

Park Issue

Pothole

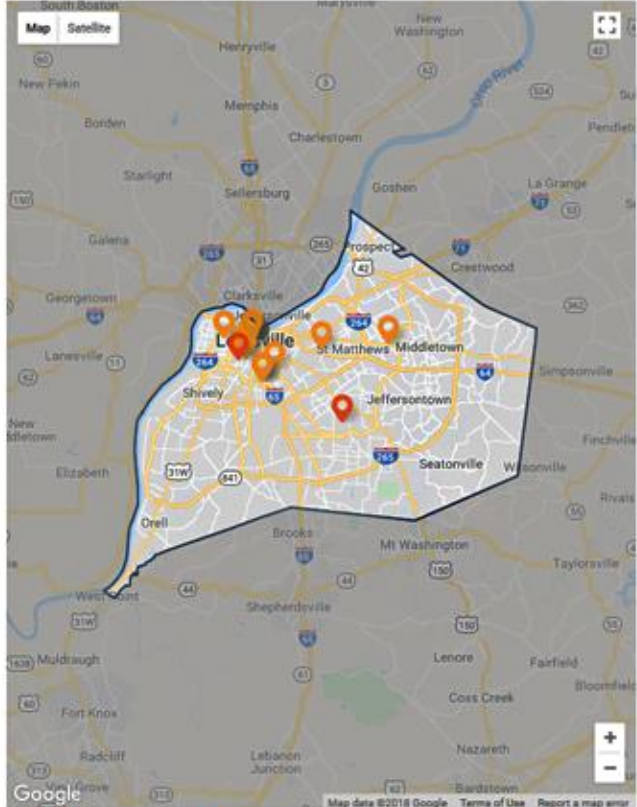
Property Maintenance Issue

Smoke Detector Concern

MapList

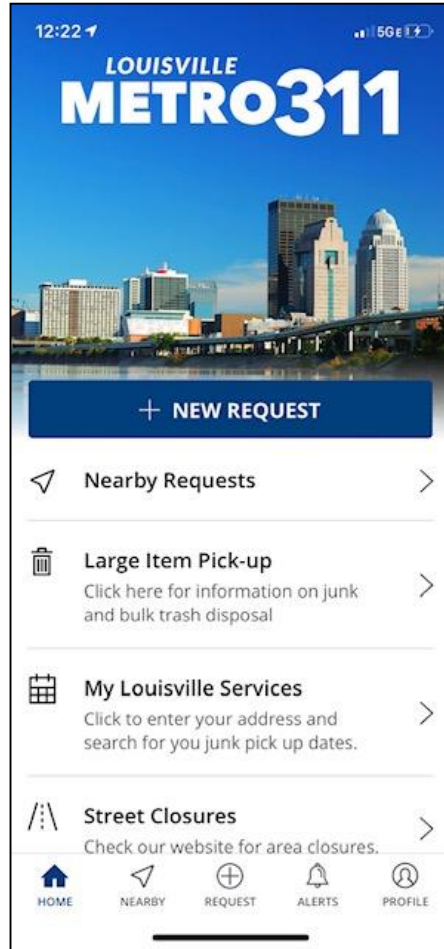
Keyword

MapSatellite

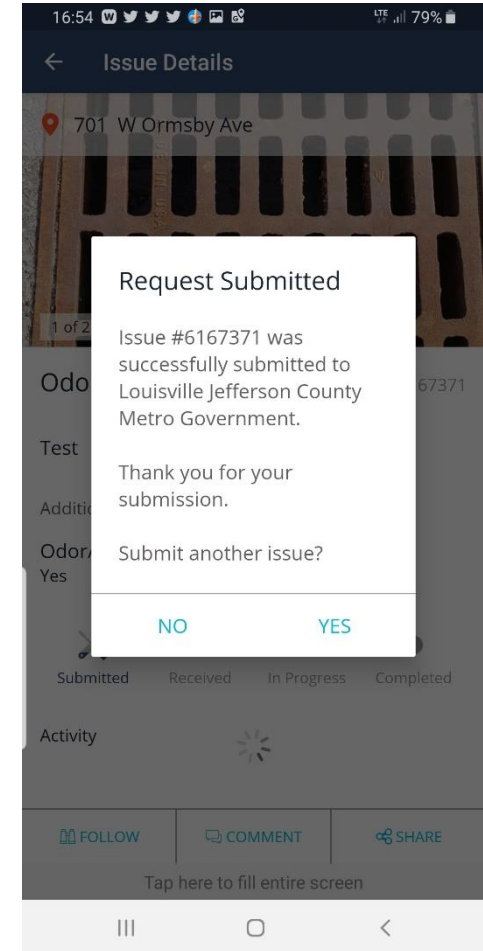


SubmittedReceivedIn ProgressCompleted

Metro311 Mobile App



- On-the-go reporting
 - Provides a method for reporting complaint on the spot (real-time)
- Mirrors the online portal
 - Continuity; tracks complaints
 - Check status of submitted complaints



SmellMyCity Mobile App

- Designed to engage local resident in tracking pollution odors
- Can be used anywhere in the U.S.
- Reports generated in Jefferson County emailed **directly** to APCD



Reporting Objectionable Odors:

- Please provide as many details as possible:
 - Location, time, nature, weather, likely source

An odor log is an easy way to track recurring odors

AIR POLLUTION CONTROL DISTRICT

ODOR LOG

INTENSITY SCALE

- 1 Slight: Odor is detectable and can be described by its characteristics or can be distinguished from other odors.
- 2 Moderate: Odor is strong enough to block the other odors, but is not so strong as to make someone try to avoid the odor.
- 3 Strong: A person would take a positive action to attempt to avoid the odor.
- 4 Very Strong: The odor produces physiological effects, such as nausea, difficulty of breathing, irritation of the eyes, nose, throat, or the level at which a residual smell remains after the odor is gone.

REPORT ODORS IMMEDIATELY TO APCD (502) 574-6000

Examples of odor types

- Sewer
- Chemical
- Garbage
- Paint
- Rubber
- Manure
- Burnt material

Date	Start Time	End Time	Location (address, street intersection, etc.)	Type of Odor	Intensity	Impact on People	Other Observations	Date/Time Reported to APCD

www.louisvilleky.gov/APCD

ODOR

Sometimes, a city is a smelly place. Odors are part of life in a major metropolitan area. But when a smell becomes unbearable, the Air Pollution Control District will try to help.

1. If you believe an odor is affecting your health and safety, call 911 immediately.
2. Otherwise, contact APCD to report an offensive odor. Use the phone number or email below.
3. Help us track the odor. Tell us where and when you noticed it, and how long it lasted.
4. Note characteristics like "strong," "sewer-like," "chemical," "burnt," "flowery," etc.
5. Write down your observations, if possible.

APCD investigators will check out your complaint and, if warranted, can cite violators who fail to address the problem.

(502) 574-7321

air@louisvilleky.gov

AIR POLLUTION CONTROL DISTRICT



Responding to Objectionable Odors

Once received, your complaint is:

- Logged into a database
- Shared with other responsible agencies
- Prioritized and assigned to APCD Compliance Officers to investigate

Your identity is confidential under the Kentucky Open Records Act. It may be “discoverable” as part of a pending legal action.

Reporting and Responding to Objectionable Odors: MSD

Daymond Talley, Assistant Director-
Treatment Facilities

- **SEWER** odors
 - Call (502) 540-6000
 - 24 hours a day, 7 days per week



Odor Issues associated with MSD Facilities

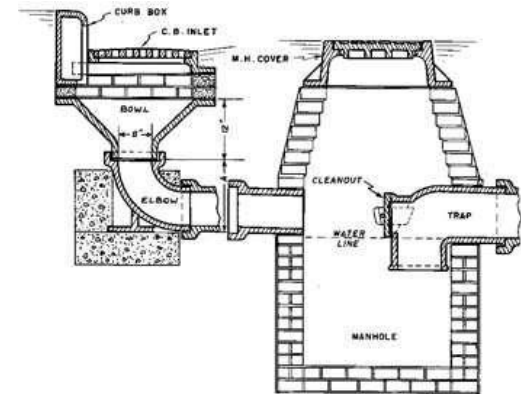
- Sewer System Odors
- Odor Areas
 - Water Quality Treatment Centers
 - Pump Stations and Force Mains
 - Combined Sewer System
- Odor Elimination or Mitigation Efforts
 - Current
 - Planned
- Odors in Buildings

Sewer System Odors

- What is that horrible smell – Hydrogen Sulfide is the primary odor related to municipal sewer systems
- Gases caused by anaerobic bacteria (influenced by dry weather and longer travel time in the system)
- Very unpleasant but generally not dangerous
- More noticeable as overall community odors are reduced
- Often difficult to locate due to incomplete descriptions or delay in reporting
- Public generally associates bad odors with sewer system

Combined Sewer System

- Approximately 680 miles of the largest oldest pipes in the sewer system
- More than 30,000 catch basins
- Dry weather results in increased travel times and increased wastewater strength along with traps in catch basins drying out
- Provisions for dealing with intense storm events
- Catch Basin Cleaning Program
- Odor Response



Odor Programs and Initiatives

- Full Service Odor Control Provider for Collections System
- Operations Response to Odor Complaints
 - Morris Forman WQTC and Regional WQTCs
 - Combined Sewer System
 - Sanitary Sewer System
- Enhanced Odor Control Program
 - Increased Public Outreach (RCAC, WJCCTF, Metro Council, Park DuValle POA)
 - Capital Projects Development
 - Envirosuite – Intelligence module (modeling odor sources using APCD weather station at Firearms Training Facility)

MSD Operations – Odor Concerns

- If you smell an **odor from sewer or treatment plant** – please **call MSD** as soon as possible with the **location, time, and any odor characteristics**
- MSD Customer Relations 24/7/365
 - 540-6000
 - 587-0603
- Questions????

Continued Efforts

Responding to Objectionable Odors: Agency Improvements

- **NEW** Board Report
 - [Compliance Investigation Status Summary Report](#)
 - A monthly overview of the complaints and investigation of complaints from the community about the air quality in Jefferson County.

CSR #	Type	Request Date & Time*		Location	Summary of Complaint	Summary of Inspection Notes & Current Status
5242037	Dust	3/19/19	3:03 PM	1225 S 15th St.	<p>The complainant stated that dust is being tracked out of Freedom Metals.</p> <p>The caller did not leave their information to be updated on the investigation.</p>	<p>The CO observed tire tracks from the exit of Freedom Metals onto 13th St, St. Louis Ave, and 12th St. After about five minutes an employee from Freedom Metals was seen watering down the road with a hose. A truck was observed exiting the facility creating clouds of dust. The CO contacted a manager from Freedom Metals who said that a major piece of machinery had gone down the previous day. He had pulled many employees to work on it, one of which is in charge of monitoring dust control. He said that allowing this to continue was not an option and he would get someone on it immediately.</p> <p>This investigation has been referred to enforcement.</p>
5245772	Burn	3/25/19	10:33 AM	1012 Springview Dr	<p>The complainant stated that their neighbor is burning trash continuously.</p> <p>The complainant was called and a voicemail was left to update them on the investigation.</p>	<p>The CO observed a firepit that was within regulation being used to burn clean, dry firewood with no evidence of trash being burned. He explained the regulations to them and told them they were not doing anything illegal.</p> <p>The investigation was closed as 'No Problem Found.'</p>
5246046	Odor	3/25/19	1:20 PM	1609 Lyman Johnson Dr	<p>The complainant reported a strong chemical odor that dissipated 45 minutes after noticing it.</p> <p>The CO called the complainant to updated them on the investigation.</p>	<p>When the CO arrived he was not able to detect any objectionable odor.</p> <p>The APCD will continue to perform surveillance in the area.</p>

Interagency Collaborations

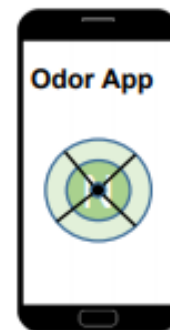
- MSD

- Community outreach initiatives



- EPA R.A.R.E. (Regional Applied Research Effort) Project

- Next Generation Emission Measurement (NGEM) program
 - Odor Wheel App – Citizen Science Project



Questions?

Louisville Metro Air Pollution Control District

701 W. Ormsby Ave.
Ste. 303
Louisville, Ky. 40203

(502) 574-6000

www.louisvilleky.gov/APCD

Keith H. Talley Sr., Director

Resources

Air Pollution Control District

[Louisvilleky.gov/APCD](https://louisvilleky.gov/APCD)

Environmental Protection Agency (EPA)

EPA.gov

EPA.gov/Region4

MSD

dp.louisvillemisd.org/dpcrm8/Views/CRM/CRMWelcome.aspx

Emergency Management Agency

Louisvilleky.gov/EMA

Air Pollution Control Board

<https://louisvilleky.gov/government/air-pollution-control-district/air-pollution-control-board>

Metro311

louisvilleky.gov/government/metro311

Louisville Metro Public Health & Wellness

Louisvilleky.gov/health-wellness